

Figur 1

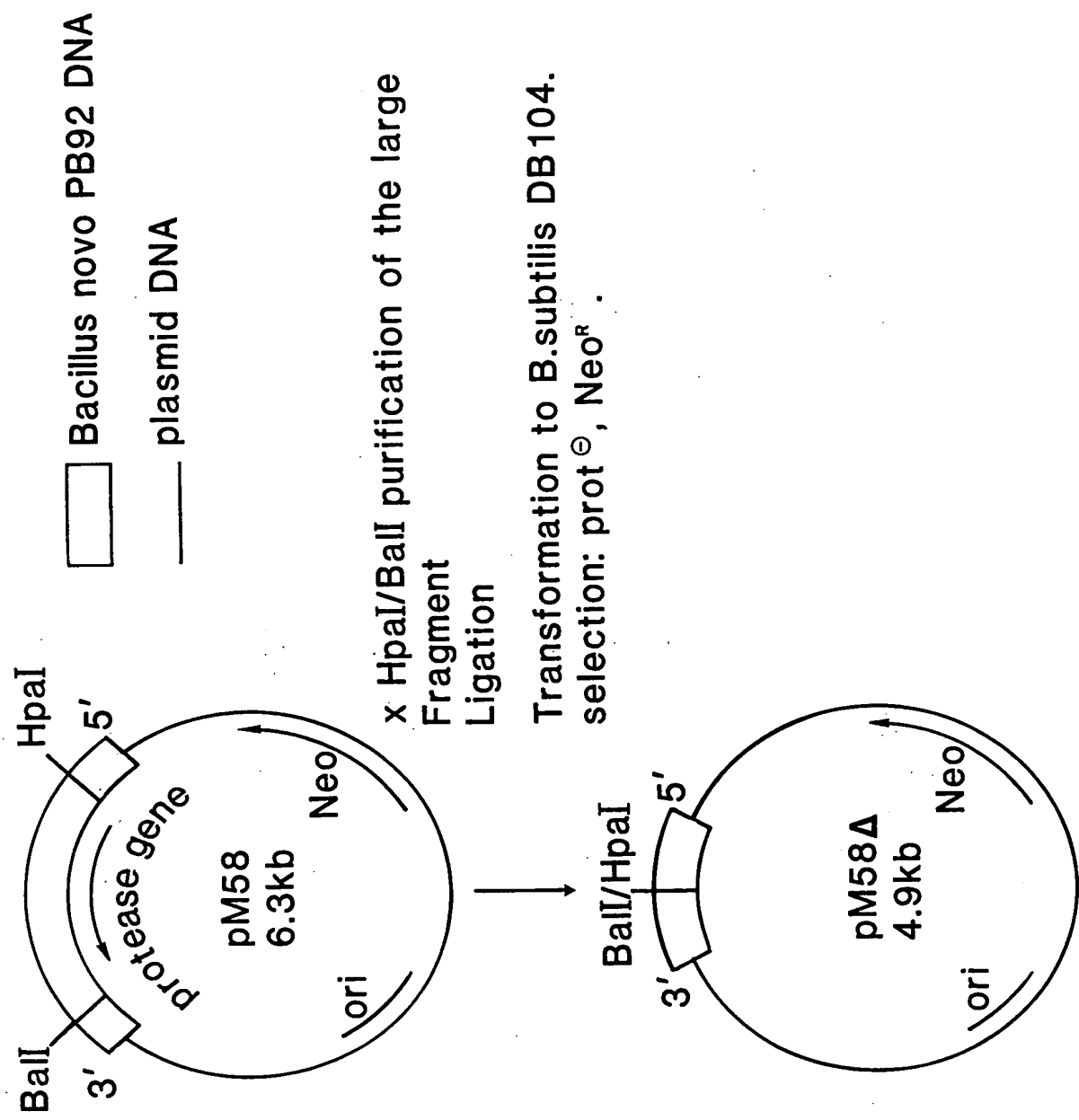


Figure 2

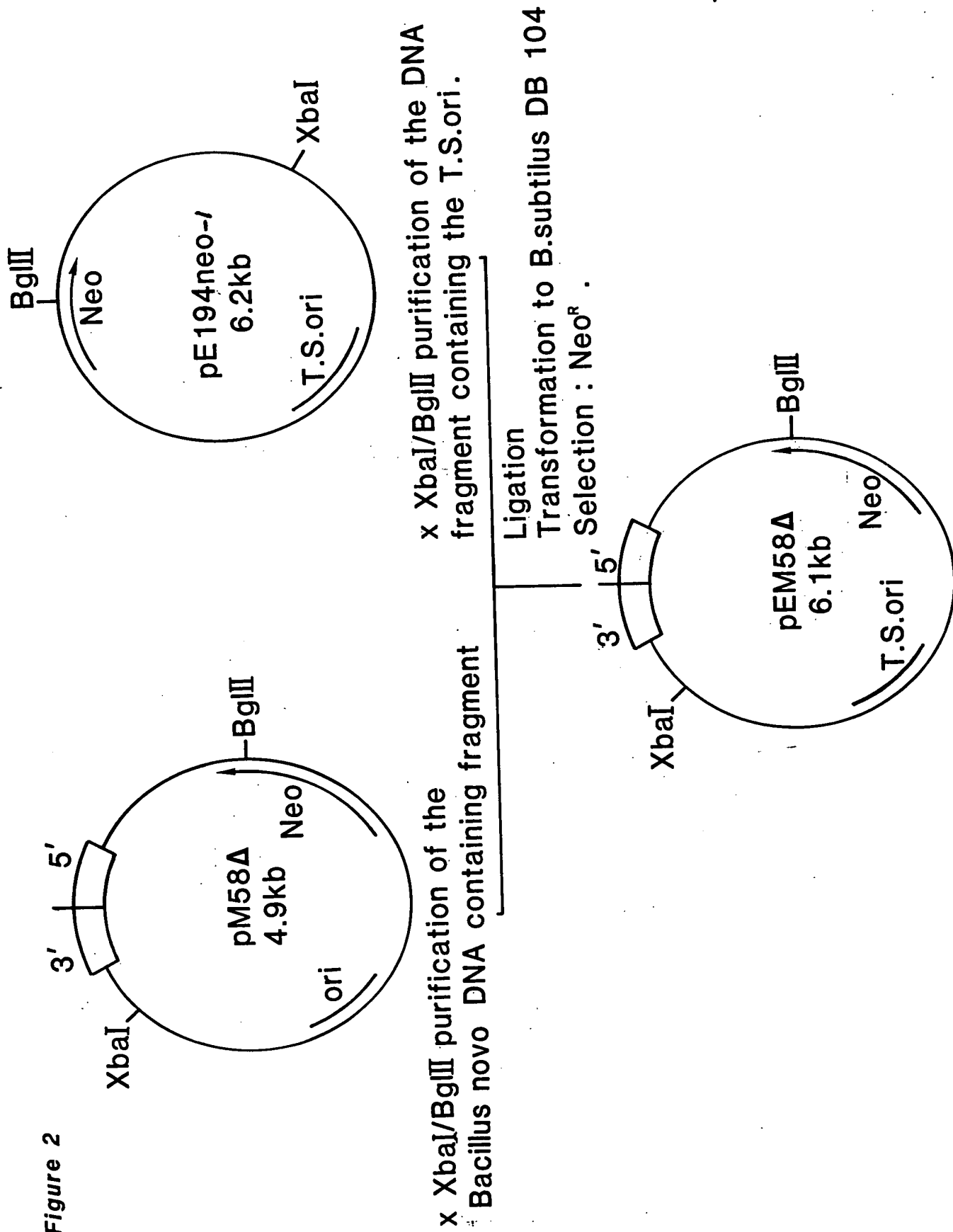


Figure 3

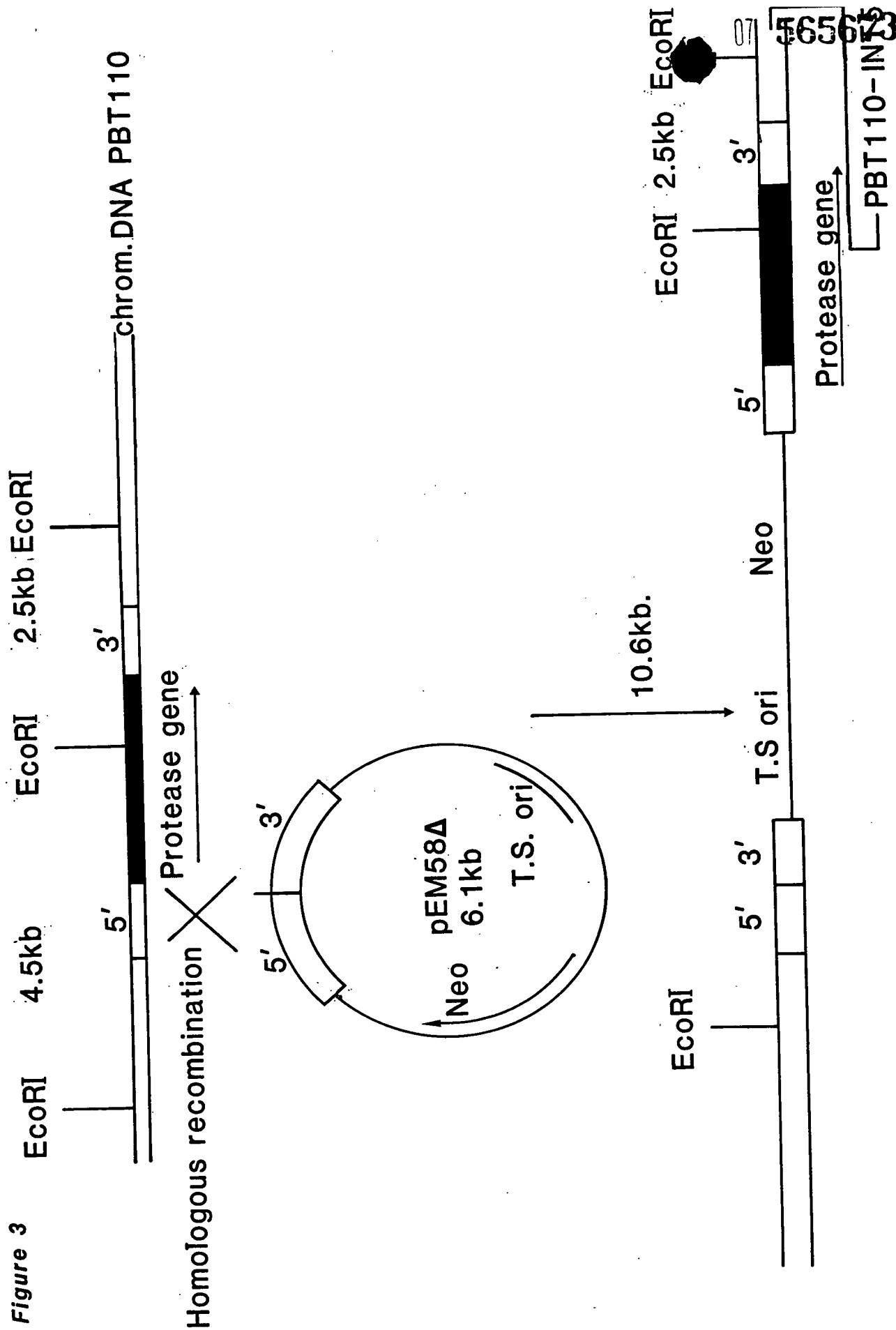
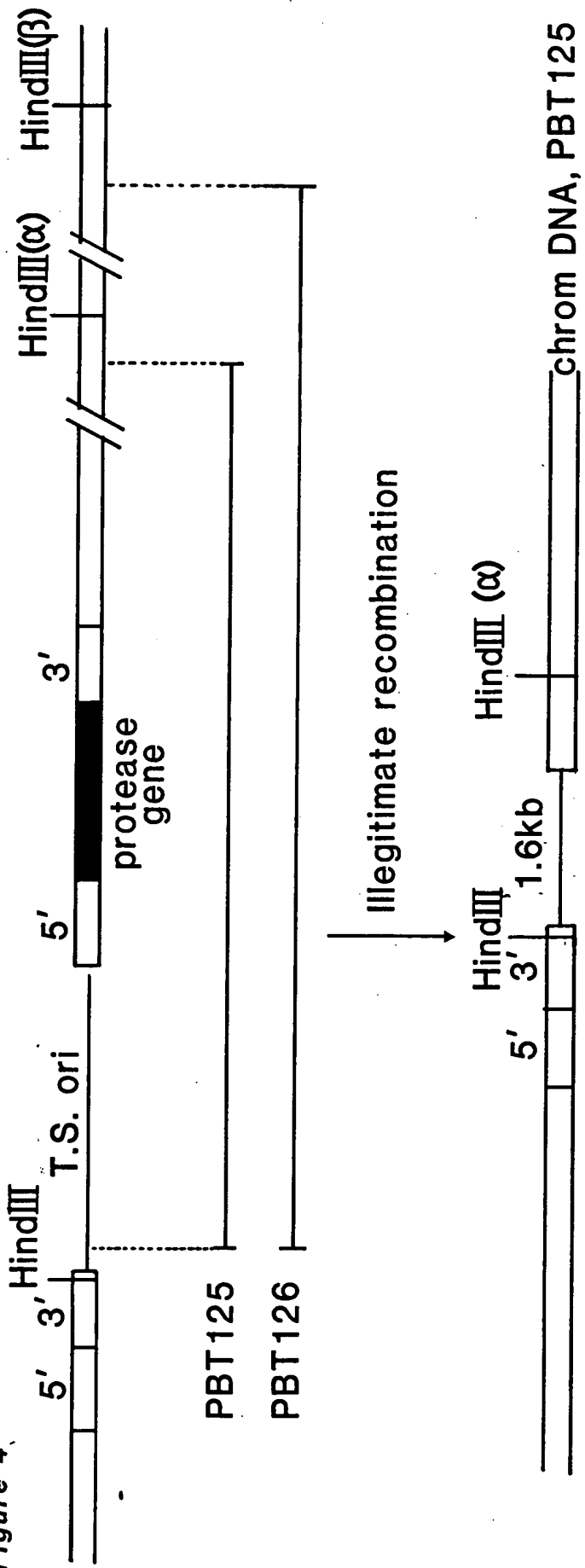
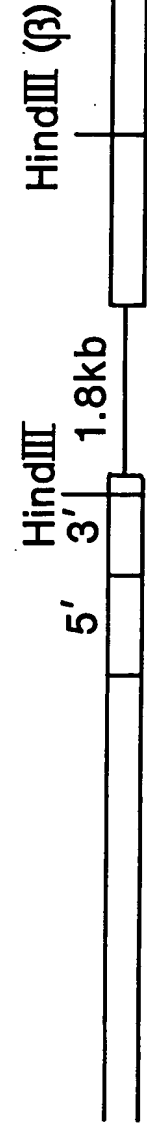


Figure 4.



07 565623



HindIII . . . . . 40 . . . . . 07 565673 80  
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 . . . . . 120 . . . . . 160  
 AAAATATTGCTTATGCAACAGTTCATAATGATGAGCAAACCCCTCACATGCATTTAGGTGTTGTGCCTATGCGTGATGGA  
 . . . . . 200 . . . . . 240  
 AAAC TGCAAGGAAAAAATGTGTTTAATCGTCAAGAACTGTTATGGCTACAAGATAAAT TCCCGAGCATATGAAAAACA  
 . . . . . 280 . . . . . 320  
 GGGTTTTGAGTTGAAGCGTGGTGAACGTGGCTCTGACCGTAAACATATTGAGACAGCTAAATTTAAAAAACAACTTTGG  
 . . . . . XbaI . . . . . 360 . . . . . 400  
 AAAAGAGATTGATTTTCTAGAAAATGAATACGGTAAGGAAAATATGCTGTATGCGACTGTCCATCTGGATGAAAGAGTC  
 . . . . . 440 . . . . . 480  
 CCACATATGCACTTTGGTTTTGTCCCTTTAACAGAGGACGGGAGATTGTCTGCAAAAGAACAGTTAGGCAACAAGAAAGA  
 . . . . . 520 . . . . . 560  
 CTTTACTCAATTACAAGATAGATTTAATGAGTATGTGAATGAGAAAGGTTATGAACTTGAAAGAGGCACGTCCAAAGAGG  
 . . . . . 600 . . . . . 640  
 TTACAGAACGAGAACATAAAGCGATGGATCAGTACAAGAAAGATACTGTATTTTCATAAACAGGAAGTCAAGAAGTTAAG  
 . . . . . 680 . . . . . 720  
 GATGAGTTACAGAAGGCAAATAAGCAGTTACAGAGTGGAATAGAGCATATGAGGTCTACGAAACCCTTTGATTATGAAAA  
 . . . . . 760 . . . . . 800  
 TGAGCGTACAGGTTTGTCTCTGGACGTGAAGAGACTGGTAGAAAGATATTAAGTCTGATGAATTTGAACGCCTGCAAG  
 . . . . . PstI . . . . . 840 . . . . . 880  
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 . . . . . 920 . . . . . 960  
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 . . . . . 1000 . . . . . 1040  
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 . . . . . 1080 . . . . . 1120  
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 . . . . . 1160 . . . . . 1200  
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 . . . . . 1240 . . . . . 1280  
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 . . . . . 1320 . . . . . 1360  
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 . . . . . 1400 . . . . . 1440  
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 . . . . . plasm.seq. chrom.seq. . . . . 1520  
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 . . . . . 1560 . . . . . 1600  
 AATTTCTAGGCAACAACAACGCCGCTATTCTTGACGGTGGGATT CAGGCTTGAAGAACAGTGGCTACCCGACAACGGGA  
 . . . . . HindIII  
 TGAGGTGAAGCTT

figure 5A

HindIII . . . . . 40 . . . . . 80  
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. . . . . 120 . . . . . 160  
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. . . . . 200 . . . . . 240  
AAACTGCAAGGAAAAAATGTGTTAATCGTCAAGAACTGTTATGGCTACAAGATAAATTCCTCCGAGCATATGAAAAACA

. . . . . 280 . . . . . 320  
GGGTTTTGAGTTGAAGCGTGGTGAACGTGGCTCTGACCGTAAACATATTGAGACAGCTAAATTTAAAAACAACTTTGG

. . . . . XbaI . . . . . 360 . . . . . 400  
AAAAAGAGATTGATTTTCTAGAAAAATGAATACGGTAAGGAAAAATATGCTGTATGCGACTGTCCATCTGGATGAAAGAGTC

. . . . . 440 . . . . . 480  
CCACATATGCACTTTGGTTTTGTCCCTTTAACAGAGGACGGGAGATTGTCTGCAAAAGAACAGTTAGGCAACAAGAAAGA

. . . . . 520 . . . . . 560  
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. . . . . 600 . . . . . 640  
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. . . . . 680 . . . . . 720  
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. . . . . 760 . . . . . 800  
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. . . . . PstI . . . . . 840 . . . . . 880  
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. . . . . 1080 . . . . . 1120  
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. . . . . 1160 . . . . . 1200  
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. . . . . 1240 . . . . . 1280  
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. . . . . 1320 . . . . . 1360  
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. . . . . 1400 . . . . . 1440  
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. . . . . plasm.seq. chrom.seq. . . . . 1520  
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. . . . . 1560 . . . . . 1600  
AGCAGG . . . . . CA.100BP . . . . . TTCAGTCCGTCAAGAGATGCGCAACTACGATAACTCCATTCTTTATGGTATGGCTG

. . . . . 1640 . . . . . 1680  
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EcoRI . . . . . 1720 HindIII  
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figure 5B

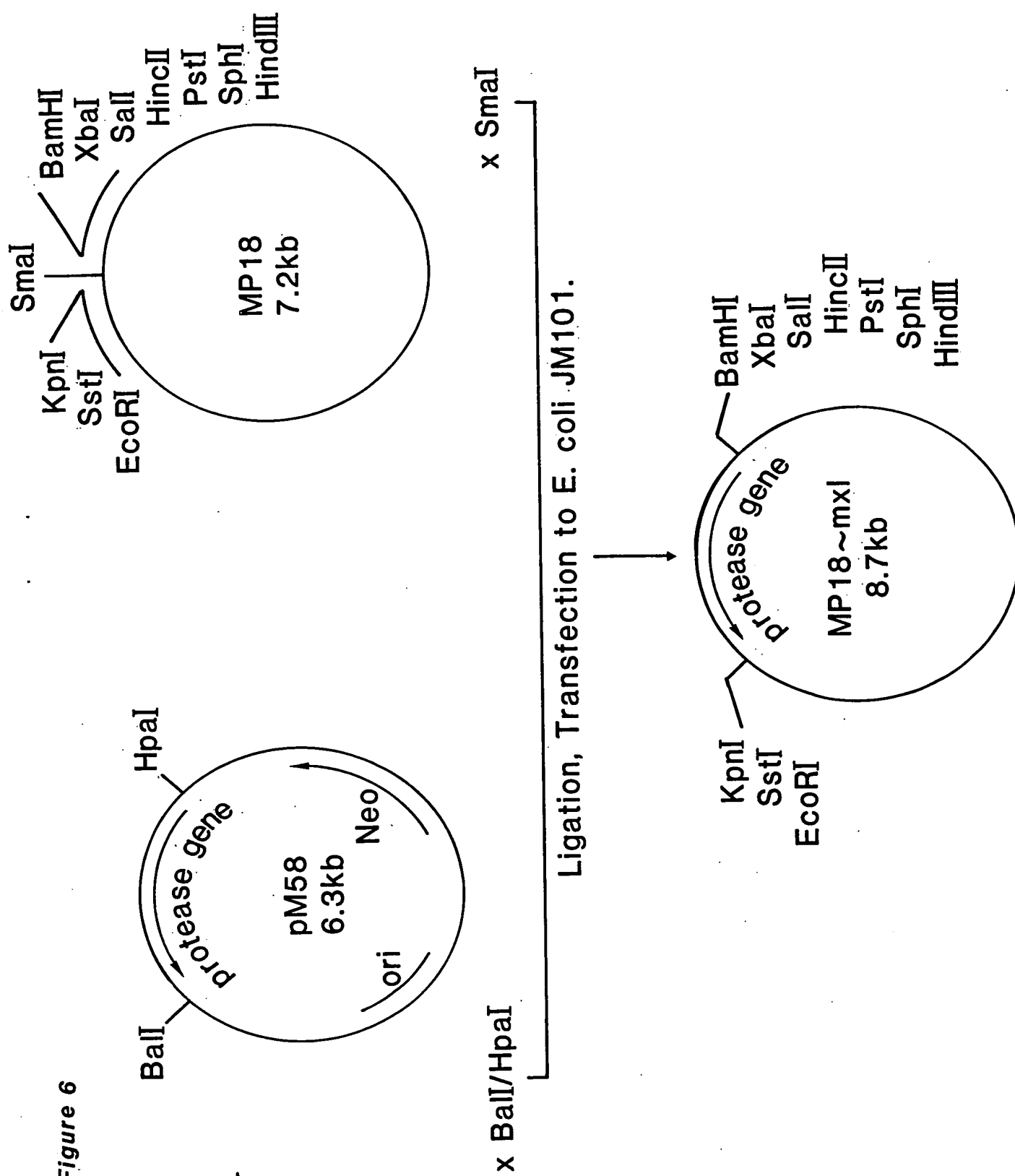


Figure 6

## Sequence of pBHA-1

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150 180  
GAAAGCAAGC TGATAAACCG ATACAATTAA AGGCTCCTTT TGGAGCCTTT TTTTTTGGAG  
210 240  
ATTTTCAACG TGAAAAAATT ATTATTCGCA ATTCCAAGCT CTGCCTCGCG CGTTTCGGTG  
270 300  
ATGACGGTGA AAACCTCTGA CACATGCAGC TCCCGGAGAC GGTCACAGCT TGTCTGTAAG  
330 360  
CGGATGCAGA TCACGCGCCC TGTAGCGGCG CATTAAAGCGC GGCGGGTGTG GTGGTTACGC  
390 420  
GCAGCGTGAC CGCTACACTT GCCAGCGCCC TAGCGCCCGC TCCTTTCGCT TTCTTCCCTT  
450 480  
CCTTTCTCGC CACGTTCGCC GGCTTTCCCC GTCAAGCTCT AAATCGGGGG CTCCCTTTAG  
510 540  
GGTTCCGATT TAGTGCTTTA CGGCACCTCG ACCCCAAAAA ACTTGATTAG GGTGATGGTT  
570 600  
CACGTAGTGG GCCATCGCCC TGATAGACGG TTTTTCGCCC TTTGACGTTG GAGTCCACGT  
630 660  
TCTTTAATAG TGGACTCTTG TTCCAAACTG GAACAACACT CAACCCTATC TCGGTCTATT  
690 720  
CTTTTGATTT ATAAGGGATT TTGCCGATTT CGGCCTATTG GTTAAAAAAT GAGCTGATTT  
750 780  
AACAAAAATT TAACGCGAAT TTTAACAAAA TATTAACGTT TACAATTTGA TCTGCGCTCG  
810 840  
GTCGTTCCGC TGC GCGAGC GGTATCAGCT CACTCAAAGG CGGTAATACG GTTATCCACA  
870 900  
GAATCAGGGG ATAACGCAGG AAAGAACATG TGAGCAAAAG GCCAGCAAAA GGCCAGGAAC  
930 960  
CGTAAAAAGG CCGCGTTGCT GGCGTTTTTC CATAGGCTCC GCCCCCTGA CGAGCATCAC  
990 1020  
AAAAATCGAC GCTCAAGTCA GAGGTGGCGA AACCCGACAG GACTATAAAG ATACCAGGCG  
1050 1080  
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1110 1140  
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1170 1200  
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1230 1260  
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1290 1320  
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1350 1380  
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1410 1440  
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1470 1500  
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1590 1620  
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1650 1680  
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1710 1740  
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1770 1800  
TCCATAGTTG CCTGACTCCC CGTCGTGTAG ATAACACGA TACGGGAGGG CTTACCATCT

1830 1860  
GGCCCCAGTG CTGCAATGAT ACCGCGAGAC CCACGCTCAC CGGCTCCAGA TTTATCAGCA

1890 1920  
ATAAACCAGC CAGCCGGAAG GGCCGAGCGC AGAAGTGGTC CTGCAACTTT ATCCGCCTCC

1950 1980  
ATCCAGTCTA TTAATTGTTG CCGGGAAGCT AGAGTAAGTA GTTCGCCAGT TAATAGTTTG

2010 2040  
CGCAACGTTG TTGCCATTGC TGCAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT

2070 2100  
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2130 2160  
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2190 2220  
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2250 2280  
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 2370 2400  
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 2550 2580  
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 3090 3120  
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 3150 3180  
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 3210 3240  
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 3270 3300  
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7050 7080  
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7110 7140  
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7170 7200  
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7230 7260  
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Figure 8

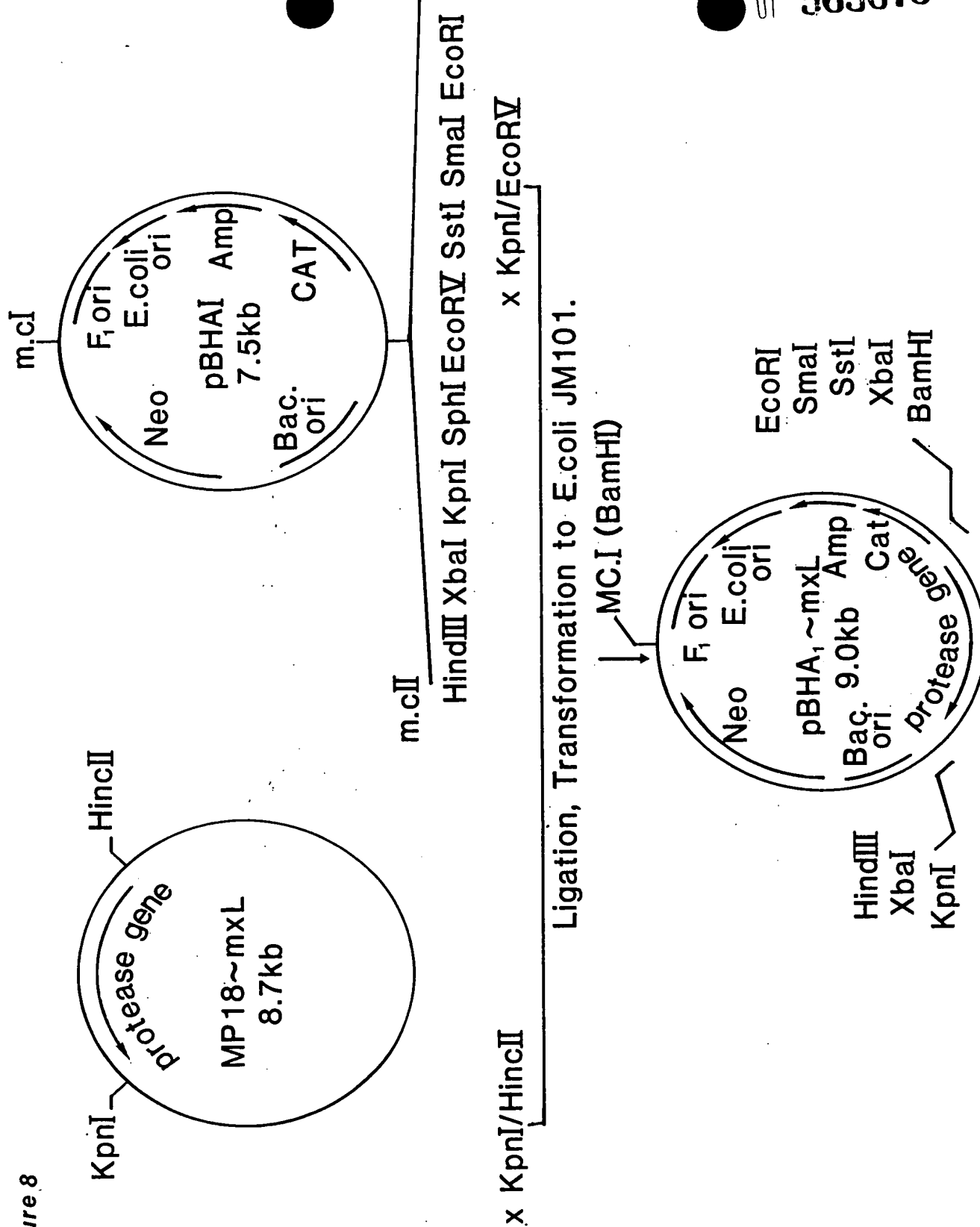


Figure 9

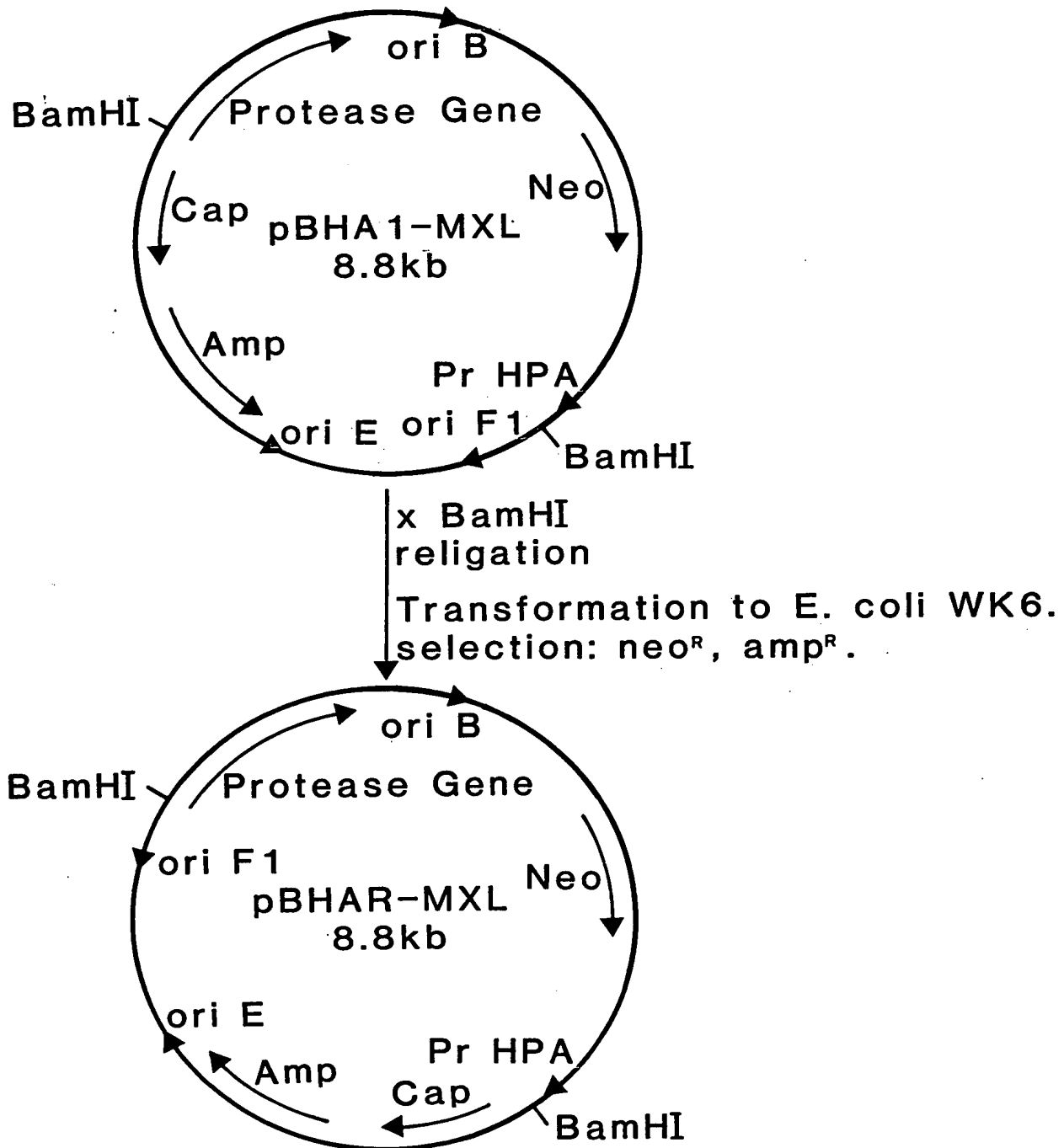
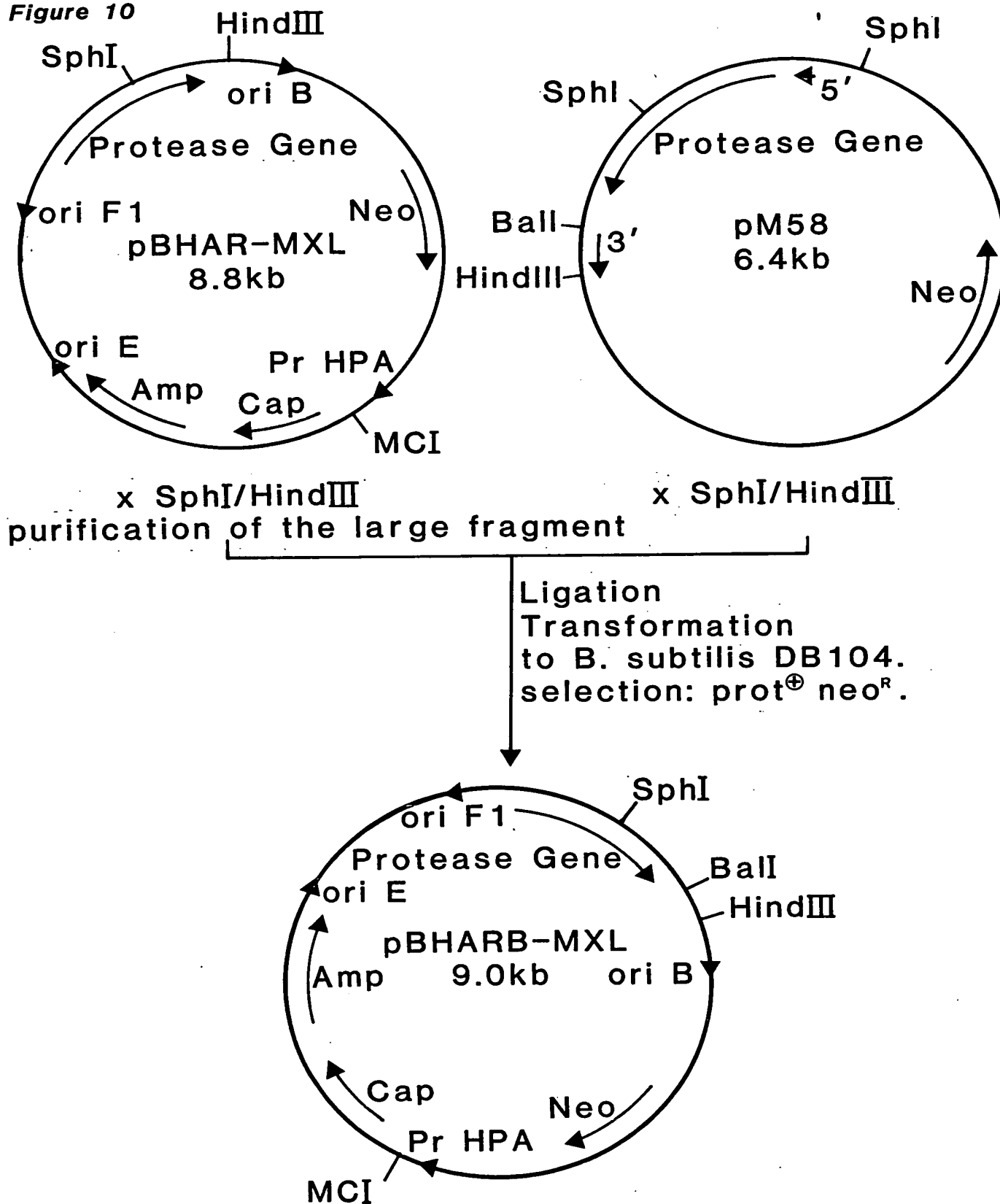
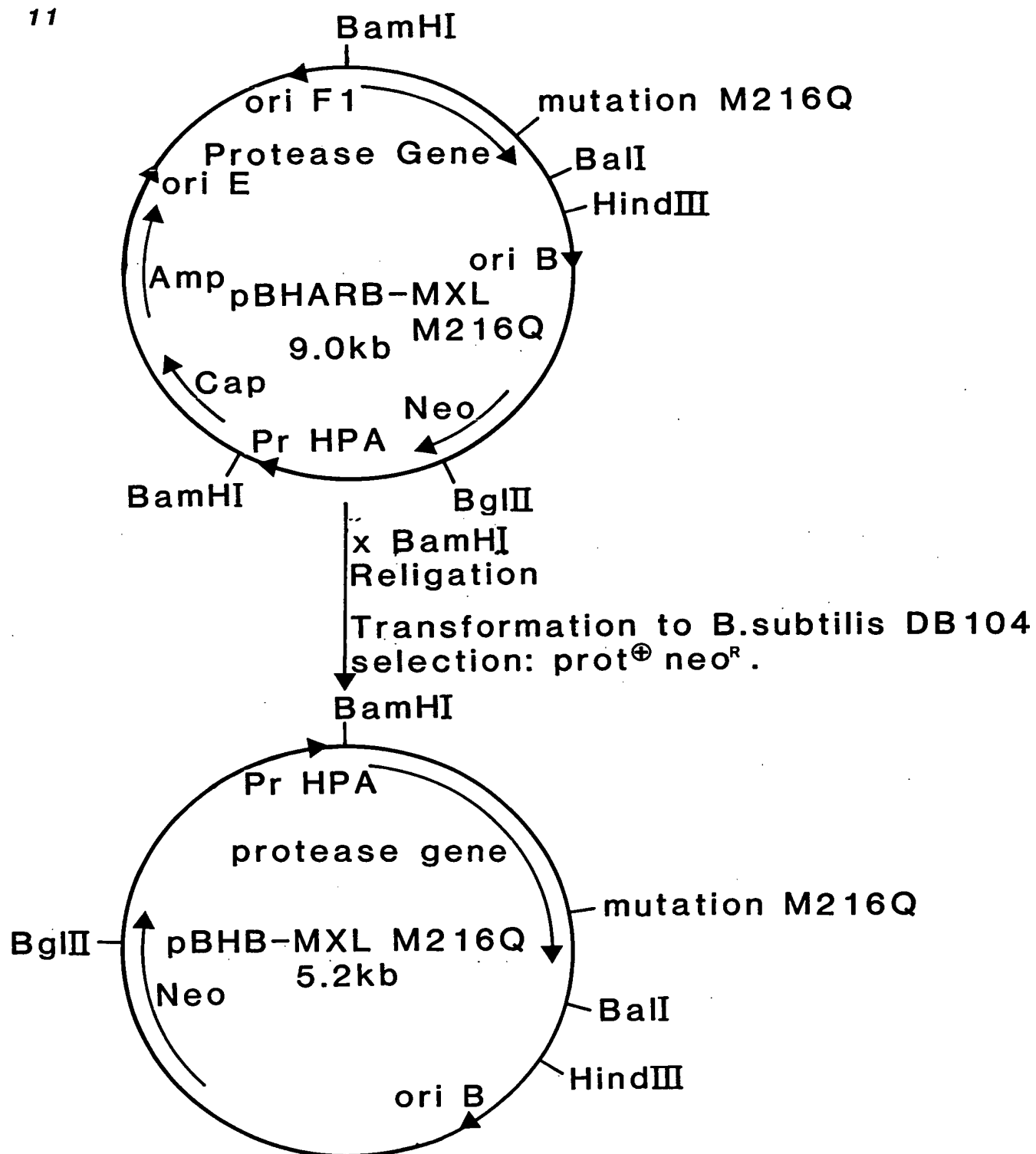




Figure 10



Figur 11



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Figure 12

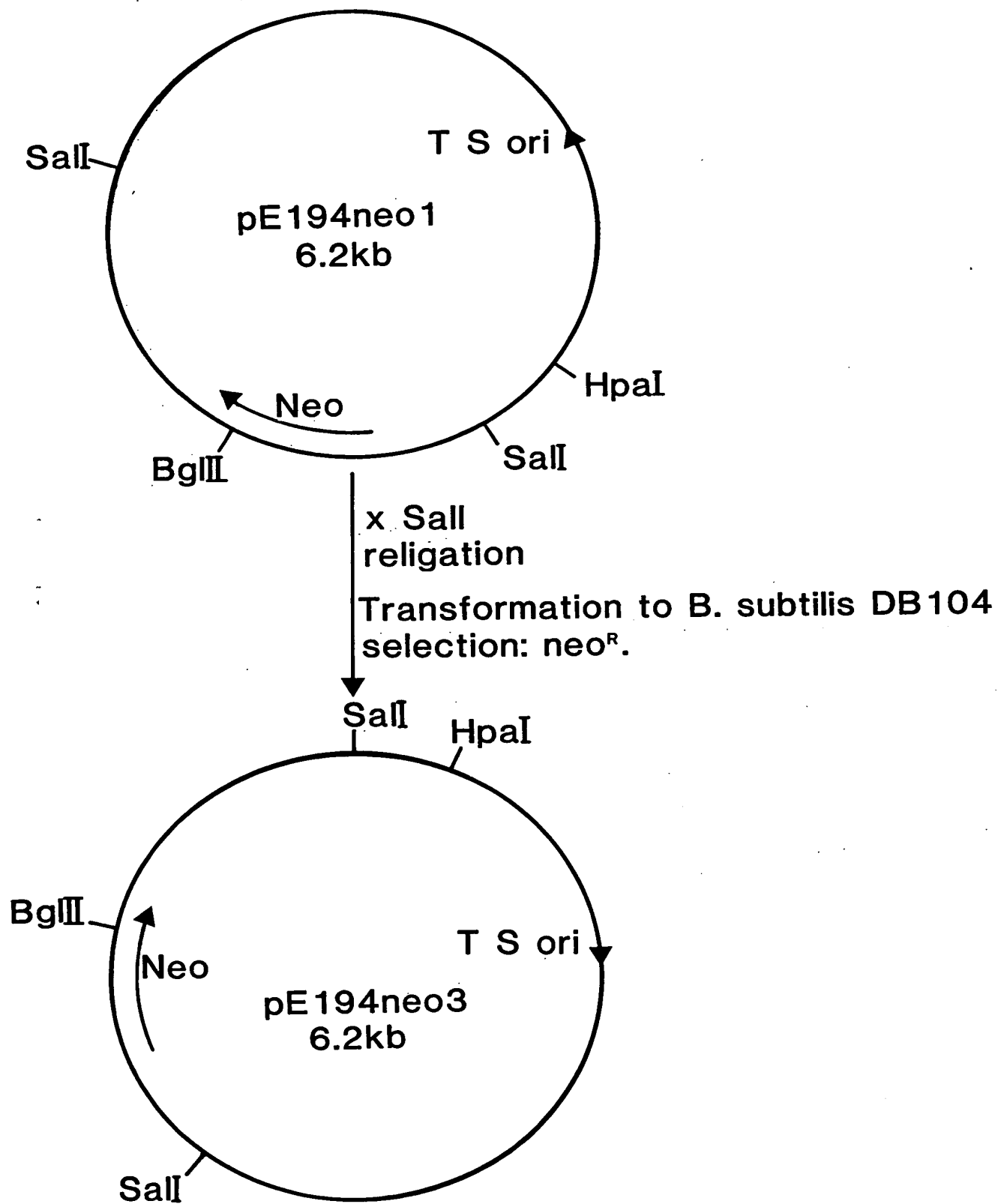


Figure 13

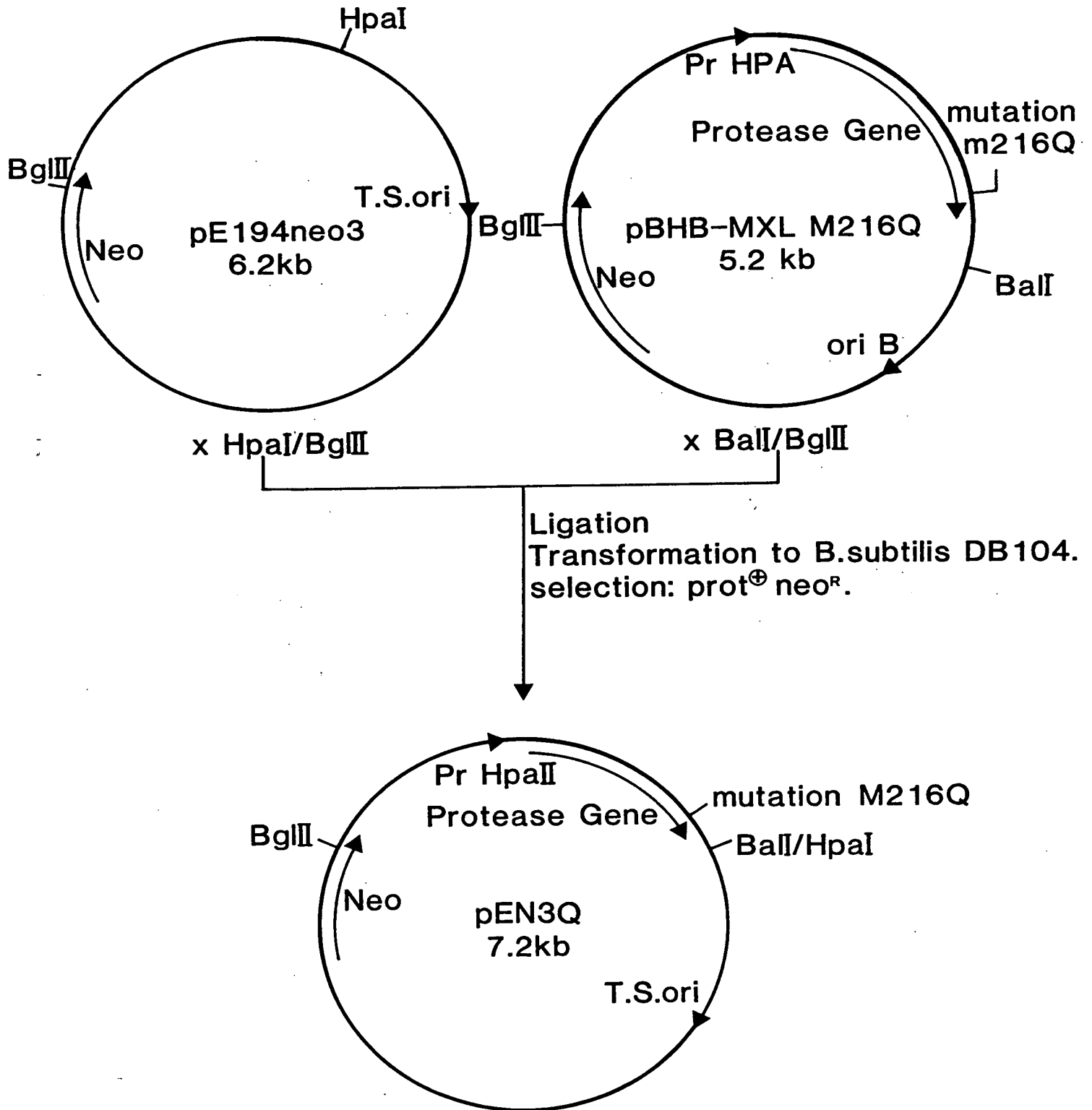
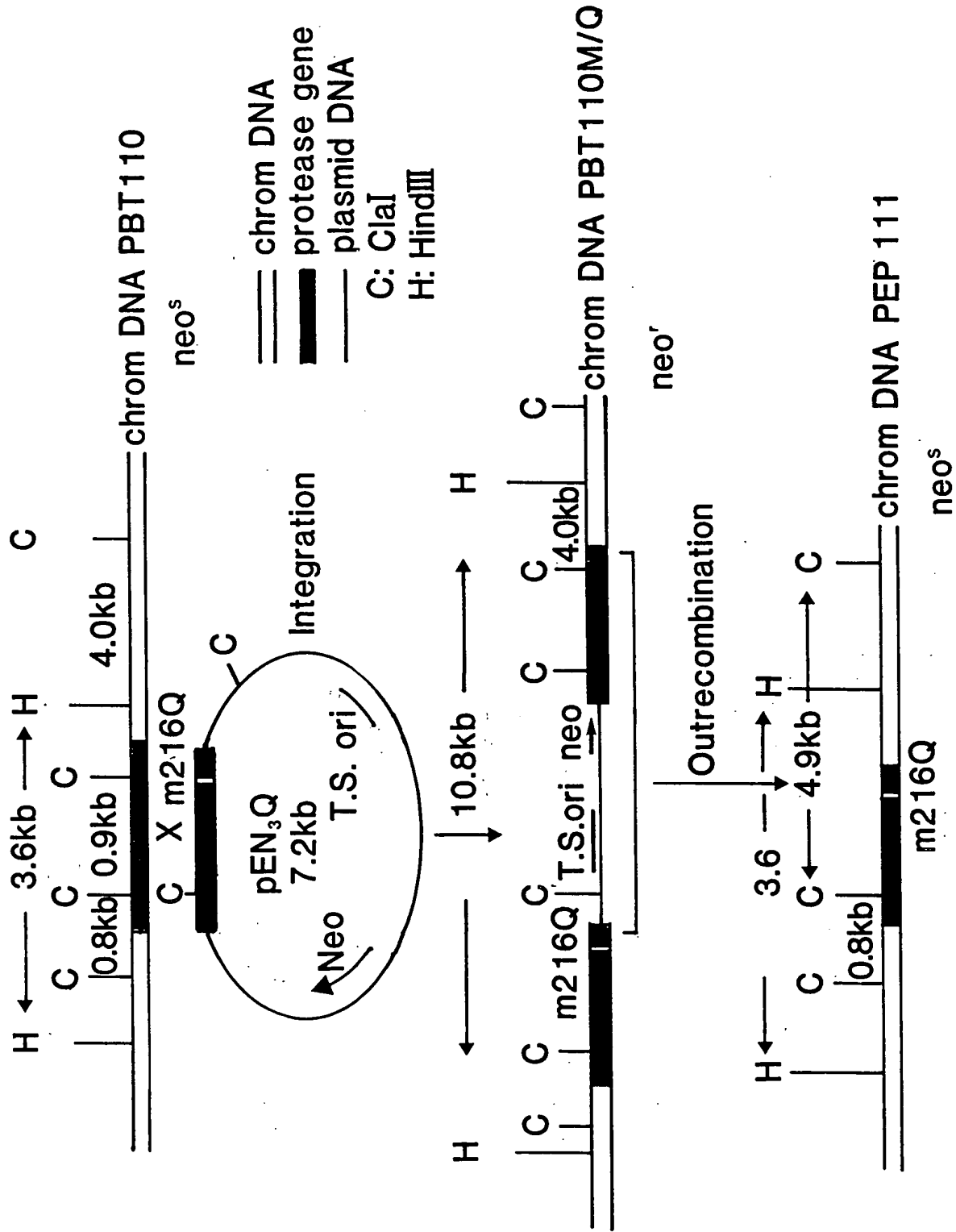


Figure 14



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Figure 15

